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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,377	11/14/2003	Masahiro Kiyotoshi	04329.3183	9596
7590 03/14/2005			EXAMINER	
Finnegan, Henderson, Farabow,			SOWARD, IDA M	
Garrett & Dunner, L.L.P.			ART UNIT	PAPER NUMBER
1300 I Street, N.W.			ART CIVIT	PAPER NOMBER
Washington, DC 20005-3315			2822	
			DATE MAILED: 03/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/712,377	KIYOTOSHI, MASAHIRO	
Office Action Summary	Examiner	Art Unit	
	Ida M. Soward	2822	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF	PLY IS SET TO EXPIRE 2 M	ONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state that the period for reply will, by state that the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thirt od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	•
Status			
1) Responsive to communication(s) filed on 14	November 2003.		
2a) This action is FINAL . 2b) TI	his action is non-final.		
3) Since this application is in condition for allow	vance except for formal matt	ers, prosecution as to the merits is	
closed in accordance with the practice unde	r <i>Ex par</i> te Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-19 is/are pending in the application	on.	·	
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5)⊠ Claim(s) <u>12-15 and 17-19</u> is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) <u>1-11 and 16</u> is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)⊠ The specification is objected to by the Exami	ner.		
10)⊠ The drawing(s) filed on 14 November 2003 is	s/are: a)□ accepted or b)⊠	objected to by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr		• • • • • • • • • • • • • • • • • • • •	
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 	ents have been received. ents have been received in A	pplication No	
 Copies of the certified copies of the preaction application from the International Bure 	•	received in this National Stage	
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,	received.	
	,		

Attachment(s) Notice of References Cited (PTO-892)	4) Tatonious S	ummary (PTO-413)	
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/O Paper No(s)/Mail Date <u>9-29-04</u> .	5) Notice of Ir 6) Other:	formal Patent Application (PTO-152) ·	

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DETAILED ACTION

This Office Action is in response to the application filed November 14, 2003.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

Figure 21 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The abstract of the disclosure is objected to because:

1. "comprises" should have been includes on page 53, line 3; and

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 "stacked formed" should have been either <u>stacked</u> or <u>formed</u> not both (page 53, line 7).

Correction is required. See MPEP § 608.01(b).

The **title** of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

Claims 1-11 and 16 are objected to because of the following informalities:

- in claim 1, "stacked formed" should have been either <u>stacked</u> or <u>formed</u> not both (page 47, lines 10-11); and
 - a. claims 2-11 incorporate the respective errors of the base claim.
- in claim 16, "metal" should have been wiring on page 52, line 5.
 Appropriate correction is required.

Allowable Subject Matter

Claims 12-15 and 17-19 are allowed.

Claims 1-11 and 16 would be allowable pending correction of the above formal matters.

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As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose, make obvious, or otherwise suggest the structure of the applicant's together with the other limitations of the independent claims, such as the lower metal electrode of the first element and the upper metal electrode the second element are electrically connected to each other, and the upper metal electrode of the first element and the lower metal electrode of the second element are electrically connected to each other; and the first lower metal electrode of the first element and the second upper metal electrode of the second element are electrically connected to each other, and the first upper metal electrode of the first element and the second lower metal electrode of the second element are electrically connected to each other. The dependent claims being further limiting and definite are also allowable.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to multilayer metal wiring semiconductor devices:

Amanuma (US 6,603,203 B2)

Harada et al. (US 2002/0005583 A1)

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Harada et al. (US 2001/0008311 A1)

Ishibashi et al. (6,150,690)

Ohtsuki (US 6,399,974 B1)

Oshima et al. (US 2002/0100984 A1)

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Takahashi (US 2001/0019141 A1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M. Soward whose telephone number is 571-272-1845. The examiner can normally be reached on Monday - Thursday 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IMS March 4, 2005

ANIH ZATAMAN
SUPERVICORY PATENT EN MINER
TARION OGY CENTER 28.1)